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ABSTRACT

A method of producing carbon-encapsulated metal nanoparticles, for example carbon-encapsulated magnetic metal nanoparticles, including providing a carbon-containing metal salt or organometallic compound in a reactor, for example a vessel having a restricted opening and decomposing the carbon-containing metal salt or organometallic compound, for example by heating, whilst maintaining carbon within the reactor to form carbon-encapsulated metal nanoparticles.